

Penguat (Amplifier)  $y(t) = Kx(t)$ ,  $K > 1$   
invertible  $\rightarrow$  Redaman (Attenuator)

$$y(t) = \frac{1}{K} x(t)$$

tapi :  $y(t) = \sin[x(t)]$  non-invertible  $\checkmark$

$y(t) = \sin^{-1}[x(t)]$  bukan inverse  
dari  $y(t) = \sin[x(t)]$

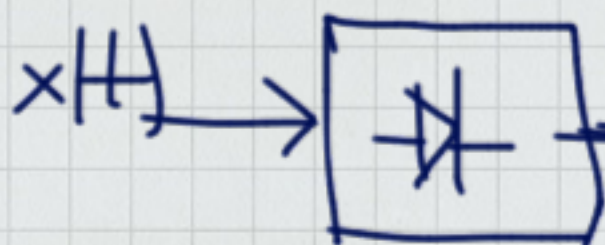
sebab jika  $x(t) = \frac{\pi}{2} \rightarrow y(t) = \sin\left[\frac{\pi}{2}\right] = 1$   
 $x(t) = \sin^{-1}[1] = \frac{\pi}{2} + 2n\pi$

$$n = 0, 1, 2, 3, \dots$$

Contoh nyata:

Penyearah  
(Rectifier)

$$y(t) = |x(t)|$$



penyearah

$$y(t) = |x(t)|$$

NON-INVERTIBLE

$$x(t) = \pm 2 \rightarrow y(t) = 2$$

Bgm dgn INVERTER ??